

## Region 6: Hurricane Harvey Chronology

<b>Date: August 17, 2017</b>	<b>Event: Hurricane Harvey</b>
	<b>For complete list of MAs / IAGs / Action Request Forms, <a href="https://response.epa.gov/Hurricaneharvey2017">https://response.epa.gov/Hurricaneharvey2017</a></b>
<b>Thur, Aug 17</b>	Tropical Storm Harvey named
<b>Sat, Aug 19</b>	Harvey downgrades to tropical depression; winds at 35 mph
	Later in day, Harvey downgrades to tropical wave
<b>Tue, Aug 22</b>	NDOW call conducts for Harvey planning
<b>Wed, Aug 23</b>	Harvey regenerates into tropical depression (535 miles southeast of Port O'Connor, TX); 35 mph winds
<b>Thur, Aug 24</b>	Harvey becomes hurricane with maximum sustained winds of 85 mph (325 miles southeast of Port O' Connor)
	Region 6 REOC activates to Level III (Minimum Activation)
	TCEQ requests EPA to provide assistance with NDOW/Response Manager to support preparation activities related to Tropical Storm Harvey.
	Meeting with EPA Contracts and Program to discuss strategy for past hurricane responses and obtain recommendations on contractor tasking.
	By midnight, Harvey is category 2 hurricane (220 miles from Port O'Connor); winds at 100 mph
<b>Fri, Aug 25</b>	Harvey upgraded to category 3 hurricane; winds of 120 mph; 75 miles southeast of Corpus Christi
<b>MA: TX-17082301-EPA-01-00</b>	FEMA activates EPA to Texas EOC and RRCC to support FEMA response operations (\$15,000)
	Establish twice-daily reporting schedule to Regional management each day
	EPA participates on several coordination calls with state and federal partners
	Meeting with EPA Contracts to discuss pre-mission assignment funding including use of Homeland Security funds
	Initiate development of position specific mailboxes
	Task START to initiate technical assistance in REOC
	Harvey is Category 4 storm; 130 mph winds and is 45 miles from land
	REOC Water Desk activated
	TCEQ sent temporary fuel waiver request to EPA for 30 counties declared by State
	EPA waives certain fuel requirements to address shortages as result of Hurricane Harvey
	Presidential Declaration issued for six counties requested by Texas: Bee, Goliad, Kleberg, Nueces, Refugio, and San Patricio
	Precautionary boil water notice issued by City of Corpus Christi public water system to notify 326,000 customers of need to boil water
	EPA deployed to Robstown to support Response Manager for TCEQ and USCG.
	OSCs and RPMs assess conditions at 22 NPL sites and Removal sites to assure on-site preparations for high winds and heavy rainfall.
	EPA reviews list of facilities of concern (RMP and FRP) in hurricane track.

	Harvey makes landfall as Category 4 hurricane; eye of storm comes ashore between Port Aransas and Port O'Connor
<b>Sat, Aug 26</b>	By end of Saturday, Harvey is downgraded to tropical storm with 70 mph winds; Forecasters warn of potentially catastrophic flooding in the coming days
<b>MA: 4332DR-TX-EPA-01-00</b>	FEMA deploys EPA to various locations, including but not limited to Texas EOC and Denton RRCC to support response operations (\$20,000)
	EPA works with TCEQ to develop comprehensive list of potentially impacted systems
	EPA representative participates in discussions at State EOC regarding infrastructure and debris management
	EPA approves second waiver request from Texas for fuels, including Dallas / Fort Worth and over 100 other counties
	EPA activates National IMT consisting of highly skilled response personnel from Regions 3, 4, 5
	EPA initiates Crisis Communication Plan to ensure rapid response to providing coordinated, accurate, up-to-date information regarding its field activities
<b>Sun, Aug 27</b>	Harvey stations itself over the Houston-area; extreme flooding and over 50 in. of rain in some areas
	Acting Regional Administrator requests IMAT support from Headquarters EOC
<b>Mon, Aug 28</b>	FEMA inquires on EPA's ability to obtain boats for search and rescue; EPA surveys contractors for boat availability; FEMA withdraws request later in day
<b>MA: 4332DR-TX-EPA-02-00</b>	Activate EPA to NRCC to support FEMA response operations (\$10,000)
<b>MA: 4332DR-TX-EPA-03-00</b>	Request ESF-10 assistance to State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharge (\$8,592,000)
<b>Resources: 66 personnel</b>	EPA Senior Advisor Wagner arrives at FEMA RRCC in Denton and provided with extensive briefing by EPA OSC and FEMA
	EPA requests support from National Data team, to provide assistance in Austin, Corpus Christi, and Houston
<b>Tue, Aug 29</b>	EPA deploys 10 personnel to assist TCEQ with Drinking Water and Waste Water Phone Bank located in Austin
<b>Resources: 69 personnel</b>	EPA notified by TCEQ of chemical incident at Arkema facility in Crosby; EPA begins monitoring situation
	EPA aerial assessment aircraft (ASPECT) mobilized to conduct air surveillance over Corpus Christi area
	PHILIS mobile laboratory deployed to impacted areas to support response
	4 IMT members deploy for Corpus Christi to rendezvous with TCEQ, TGLO, and USCG to form unified command.
	EPA drafts incident specific surface and flood water sampling plan to address public health concerns regarding possible contaminants in storm water; plan provided to HQ for review
	EPA notified by TCEQ of chemical incident occurring at Arkema facility in Crosby
	National IMAT arrives at REOC
	36 Harvey-related release reports received through NRC to date
	TAGA mobile lab activated and deployed from North Carolina to assist with air monitoring; scheduled to arrive by September 1

<b>Wed, Aug 30</b>	Conoco Phillips facility in Cuero, Texas reported 316 bbl spill oil spill; spill impacted Denton Creek; response team responds from Unified Command
<b>MA: 4332DR-TX-EPA-03-01</b>	Amendment #1: Amend to change projected end date to 9/30/2017 and OFA Action Officer to Steve Mason; no change in funding (\$8,592,000)
<b>Resources: 76 personnel</b>	EPA initiates Crisis Communication Plan to ensure rapid response to providing coordinated, accurate, up-to-date information regarding field activities
	EPA Administrator visits Corpus Christi
	Additional 14 counties added to Presidential Declaration for Texas
	Seven teams conduct reconnaissance in Corpus Christi area (TCEQ, CST, EPA, USCG)
	San Jacinto Pits NPL site under water; USOR NPL site reports release in floodwaters
	52 water systems have BWNs in place; 23 water systems shut down; 17 waste water systems shut down
	EPA deployed ASPECT aircraft to assess the conditions at the Arkema facility in Crosby and continues to assist the TCEQ, our primary regulatory partner in Texas
	2 NPL sites inspected: Falcon Refinery and Brine Service in Corpus Christi; neither require additional clean up
<b>Thu, Aug 31</b>	NRC received report from Arkema concerning explosion at facility. Facility and surrounding area previously evacuated. OSC dispatched to incident. ASPECT to fly area.
<b>Resources: 98 personnel</b>	State of Texas has initiated communication with drinking water and waste water treatment facilities to determine operational status.
	Poison Control Centers set up to help citizens who have questions concerning Arkema facility, as well as other flood-related health questions.
	Public Information Unit in Dallas fully operations and supported by PIAT; PIO in Corpus Christi to support operations.
	4 teams deployed to Houston and 4 teams deployed to Beaumont/Port Arthur to support emergency response activities at facilities
	City of Beaumont reports lack of potable water; water pumps not functional
	EPA Administrator visits State Operations Center in Austin
	EPA and USCG discuss options for funding USCG activities under Mission Assignment process, including possibility of IAG and subtasking, as well as USCG own Mission Assignment
	85 Harvey-related release reports received through NRC to date
	There are now 15 Boil Water Notices in impacted areas
<b>Fri, Sept 1</b>	4 No Action Assurance (NAA) letters signed by EPA to help address fuel shortages
<b>MA: 4332DR-TX-EPA-02-01</b>	Amendment #1: Extend end to 9/11/2017. Increase funding by \$40,000 (cumulative \$50,000)
<b>Resources: 107 personnel</b>	EPA HQ EOC activated and EPA mobilized personnel to Austin, Houston and Corpus Christi in addition to providing response support in Dallas and DC
<b>Expended Funds: \$1,752,312</b>	EPA, TCEQ, Crosby Fire Department, Harris County Fire Marshal Office, and Arkema established Unified Command at Arkema response
	EPA deployed two container recovery teams in Corpus Christi to collect orphaned containers where hazard evaluations have been completed
	6 oil discharge assessment teams of USCG and TGLO conducting reconnaissance in Corpus Christi; 8 teams in Houston

	99 Harvey-related release reports received through NRC to date
	DOT/PHMSA issues waiver of hazardous materials regulations for EPA response activities
	2 teams are conducting air reconnaissance via helicopters in Corpus Christi
	115 Harvey-related release reports received through NRC to date
	4 TCEQ water infrastructure teams conducting drinking water and waste water assessments in Corpus Christi
	Phase 1 - 41 site inspections completed
<b>Sat, Sept 2</b>	FEMA approved Texas' request to amend cost waiver for response effort funding for 30 days from incident date of 08/23
<b>Personnel: 106</b>	FEMA's JFO opened (R6 has two liaison stationed at JFO in Austin)
<b>Expended Funds: \$1,759,127</b>	Arkema: 3 of 9 trailers have self-ignited and caught fire
	120 Harvey-related release reports received through NRC to date
	TCEQ sent 4 teams to survey Beaumont area (GW plant remains off-line due to flooding conditions; SWP producing 20 MGD)
	State of Louisiana received Emergency Declaration (FEMA-3382-EM)
	Arkema, in consultation with UC, decided to manually ignite remaining peroxide trailers; 1.5 evacuation radius remains in effect
	PIO is mobilized to Houston to liaison with Houston Mayor's Office
	EPA looking for staging areas in Beaumont/Port Arthur to establish operations
	ASPECT observed white smoke emitting from trailer at Arkema; yellow liquid also detected around trailers; decision delayed on igniting trailers due to smoke
	Corpus Christi Discharge Assessment Team 1 observed ongoing release of natural gas at South Mustang Separation Facility
<b>Sun, Sept 3</b>	EPA's aerial reconnaissance aircraft continues to fly over Arkema facility every 10 to 15 min
<b>Personnel: 143</b>	Geneva Industries/Fuhrmann Energy; Sheridan Disposal; Ruston Foundry NPL Sites Completed
<b>Expended Funds: \$2,692,902</b>	PIO mobilized to the Houston Mayor's Office to began operating out of the Houston Emergency Center
	136 Harvey-related release reports received through NRC to date
	USACE reports most impacted counties will conduct debris removal
	Beaumont's wastewater treatment plant fully operational and running by generator
	Remaining peroxide trailers at Arkema facility manually ignited in controlled method to eliminate risk of uncontrolled event
	San Jacinto River and Rail Facility reported 15,000 gallons of waste oil discharged within facility to include 12 mystery drums scattered across facility
	ER/Recovery Group discovered and removed 6 hazardous material drums near recreational area in Victoria
	Magellan facility along Houston Ship Channel reported 25,000 barrels of gas/stock blend released within facility and currently contained in secondary containment
	In Mesquite Bay, team discovered oil sheen; suspected source is nearby oil production platform; no ongoing discharge observed

	Site assessments completed at 24 public water systems and 14 wastewater treatment facilities in Houston
	1,656 of approximately 2,469 wastewater treatment plants are fully operational in affected counties
	Approximately 1/2 (2,300) of 4,500 drinking water systems potentially affected contacted; 166 have boil-water notices and 50 shut down
<b>Mon, Sept 4</b>	Staging area secured at Beaumont Branch
<b>MA: 4332DR-TX-EPA-03-02</b>	Amendment #2: Amend to change Federal cost share to 100% per FRM #4 of the Presidential Declaration (\$8,592,000)
<b>Personnel: 154</b>	Field response activities continue at Corpus Christi and Houston branches; focus changes from assessment to recovery
<b>Expended Funds: \$3,496,641</b>	1.5 mile radius evacuation order lifted around Arkema facility in early morning; EPA demobed from facility
	One Superfund Phase 2 inspection completed
	Acting Regional Administrator and advisors to Administrator met with Houston Mayor/local and state officials
	EPA deployed PIO to FEMA JFO in Austin; PIO will be EPA representative to JIC
	Acting Regional Administrator and advisors tour NPL sites with reporters from national media outlets; attending Congressional briefing later today
	Oil Discharge Assessment Group provided oversight of removal of oil from Signet Enterprise at Aransas Pass
	EPA issued joint statement with TCEQ about controlled burn at Arkema facility; Crosby Volunteer FD/Harris County Fire Marshall's Officer performed burn
	EPA's TAGA bus along with EPA personnel arrived in Houston
	EPA Team began mobile air monitoring in the Manchester Community (Houston Branch); 6 locations monitored
	Pre-sampling of staging areas (Port Aransas and Aransas Pass) completed in Corpus Christi branch
	Team assessed elevated tank in Rockport; City engineers recommend City drain tank and disassemble it
	Total of 73 orphan containers have been collected to date
	EPA has conducted rapid assessments at 43 NPL sites; 13 require follow-up; 11 follow-ups completed to date
	President approved additional 7 more counties (Austin, Bastrop, DeWitt, Gonzales, Karnes, Lavaca, and Lee) to Disaster Declaration; total # of counties: 39
<b>Tues, Sept 5</b>	EPA Liaison embedded with Houston Mayor's Office; toured 3 Superfund sites and briefed Senator John Cornyn's office
<b>MA: 4332DR-TX-EPA-01-01</b>	Amendment #1: Amend 4332DR-TX-EPA-01 for additional funds for personnel at SEOC/JFO at request of FEMA; extend completion date (\$275,000)
<b>Personnel: 165</b>	EPA participating on Vector Control Task Force to develop plans for mosquito control in flooded areas
<b>Expended Funds: \$3,667,203</b>	Acting Regional Administrator, EPA Ronnie Crossland, EPA Senior Liaison, TCEQ Chair, briefed Governor Abbott

	Acting Regional Administrator, Chairman of TCEQ, and EPA Special Advisors briefed Houston Mayor today
	Senior Federal Official Honker at JFO to represent EPA to brief FCO for FEMA
	EPA has granted all open fuel waivers requested to date
	Acting Regional Administrator visited Houston command post
	EPA TAGA to conduct air monitoring in southeast Houston around the Valero Refinery
	EPA hosted call with Environmental Justice contacts in Texas and Louisiana to discuss community concerns in impacted areas
	TCEQ operations were turned back over to the TCEQ regional office
	Air operations helicopter teams continued clearing grids in Liberty and Chambers counties for inland Hazard Assessment
	Drinking Water On-Site Assessments: 102; Drinking Water Phone Assessments: 4,402
	Waste Water On-Site Assessments: 80; Waste Water Phone Assessments: 2,803
	Total of 86 containers collected to date
	Houston Magellan facility cleanup completed (product outside of contaminant)
	10,000 gallons petroleum removed at Signet Enterprise vessel located at Aransas Pass (addressed by RP with EPA oversight); 45,000 gallons of petroleum removed
<b>Wed, Sept 6</b>	EPA began deploying community liaisons to serve in EOCs
<b>Personnel: 189</b>	EPA coordinating with USCG on a 2500-gallon fuel oil spill at Houston Magellan facility
<b>Expended Funds: \$3,782,430</b>	EPA assisted TCEQ by conducting site inspections at 2 State Superfund Sites
	EPA Remedial Manager onsite and overseeing at San Jacinto Waste Pits Superfund Site
	Drinking Water On-Site Assessments: 168; Drinking Water Phone Assessments: 4,510
	Waste Water On-Site Assessments: 115; Waste Water Phone Assessments: 2,794
	Command Post established in Beaumont/Port Arthur Branch
	Material from Port Aransas Staging Pad transported and consolidated into larger Aransas staging pad
	TCEQ evaluates state Superfund sites
	EPA PIO briefed Houston OEM on deployment of Community Liaisons throughout affected areas
	Water Infrastructure Group assigned team to assist City of Beaumont Drinking Water Services
	EPA issued statement on assessment of Valero Houston Refinery (confirmed tank at facility did leak which occurred on 08/26/2017)
	Total of 91 containers collected to date
<b>Thu, Sept 7</b>	Senior Advisor Kell Kelly joined FEMA JFO in Austin as EPA's Senior Federal Official.
<b>Personnel: 198</b>	EPA recovered 5 hurricane-damaged containers in Corpus Christi area; 96 containers collected to date
<b>Expended Funds: \$5,210,968</b>	EPA, TCEQ, and USCG teams completed damage assessments in 4 counties (Liberty, Austin, Waller, and Chambers)
	Drinking Water On-Site Assessments: 256; Drinking Water Phone Assessments: 4,852
	Waste Water On-Site Assessments: 181; Waste Water Phone Assessments: 2,908

	19 community liaisons deployed to Houston area
	EPA began post-hurricane sampling at 34 NPL Superfund sites in Texas
	Drinking Water On-Site Assessments: 168; Drinking Water Phone Assessments: 4,510
	Waste Water On-Site Assessments: 115; Waste Water Phone Assessments: 2,794
	EPA ordered Arkema to provide detailed timeline of events for handling organic peroxides
	EPA received notifications from 8 companies covering 12 LA/TX Gulf facilities impending storms may cause delay or impediment in complying with Consent Decrees
	EPA concurred with Texas plan for vector control; plan calls for use of insecticides containing "Naled" for aerial spray operations
	Governor Abbot announced Commission to Rebuild Texas; asked all State and Federal Agencies to work together to expedite cleanup
	Completed phone surveys of water and waste water treatment facilities
	EPA Dive Team deployed to oversee PRP actions at San Jacinto Superfund Site
	TAGA continues monitoring around neighborhood adjacent to Valero refinery in southeast Houston. No levels detected above TCEQ Air Monitoring Comparison Values
	R6 activated Texas Poison Control Center Network
	Aerial insecticide spraying began over Refugio and Bee counties
<b>Fri, Sept 8</b>	EPA released data generated from sampling of flood water and ambient air during Arkema fires; no detections above levels of concern outside 1.5-mile evacuation area
<b>Personnel: 198</b>	EPA/TCEQ/Houston released TAGA air monitoring data from Manchester neighborhood; results indicate no chemical concentration above state selected screening levels
<b>Expended Funds: \$5,337,900</b>	TCEQ expanded to 24-hour operations; R6 staff added to SEOC
	Number of Hazard Evaluation Teams reduced from 26 to 24 in Houston Branch; number of Water Assessment Groups reduced from 11 to 10
	ASPECT conducted assessments over Valero Refinery and Austin, Fort Bend counties with list of state targets (roughly 28) of RMP and water infrastructure facility targets
	Drinking Water On-Site Assessments: 256; Waste Water On-Site Assessments: 181
	Total of 106 containers collected to date
	Texas Dept. of Agriculture signed pesticide applicator certification waivers for DOD
	EPA deployed 4 air quality technical specialists to Houston area
<b>Sat, Sept 9</b>	Governor Abbot sent letter to EPA encouraging support for TX Water Dev. Board's request flexibility in allowances and procedural changes in State Revolving Loan Fund program
<b>MA: 4332DR-TX-EPA-03-03</b>	Amendment #3: Amend to obligate additional \$1,500,000 to original MA to continue ESF-10, including expanded areas since initial Mission Assignment (\$10,092,000)
<b>Personnel: 198</b>	EPA concurred Texas use of emergency hurricane debris management guidance
<b>Expended Funds: \$5,796,955</b>	EPA received 17 notifications of force majeure claims from companies covering TX/LA
	Drinking Water On-Site Assessments: 295; Waste Water On-Site Assessments: 193
	TCEQ has invited EPA and Harris County Pollution Control Agency to participate in Hurricane Harvey Update for environmental advocacy organizations
	EPA's TAGA mobile laboratory currently non-operational due to a technical malfunction

	ASPECT conducting flights of special targets in Deer Park, Pasadena and Baytown and observed RMP facilities
	Dallas REOC staffed with Debris Management Technical Expert who participates as member of FEMA Debris Task Force
	Corpus Christi: Oversight of fuel transfer of Signet Enterprise (total of 79,000 gallons being transferred to date)
	EPA issued press release outlining impacted infrastructure status improvements -- number of drinking water facilities operational and wastewater systems nonfunctioning
	Total of 113 containers collected to date
	EPA extended current multi-state fuel waiver to 09/26/2017
<b>Sun, Sept 10</b>	Reggie Cheatham and OMB Budget Manager Jodi Beinger visited REOC and ASPECT aircraft
<b>Personnel: 245</b>	Monitoring teams identified elevated readings of VOCs in Pasadena area
<b>Expended Funds: \$6,067,185</b>	EPA confirmed 21 of 39 disaster declaration counties currently providing private well testing for residents; EPA assessing if remaining 18 counties need additional support
	EPA shared approved fact sheets from TCEQ/EPA for returning residents to over 5,000 local, state, tribal and industry partners
	Joint news release from EPA/TCEQ issued updating public on the Hurricane Harvey overall response
	State and Federal aerial assets continued mosquito spraying operations in Aransas, San Patricio, Kleberg, Jackson, Dewitt and Lavaca counties
	Response team completed removal of oil released from antique train in Bryan Park in Port Arthur
	Drinking Water On-Site Assessments: 391; Waste Water On-Site Assessments: 265
	EPA liaison to Houston Mayor's Office completed coordination with officials at EOC
	EPA assigned RSF Coordinator to participate in Regional Interagency Recovery Meeting at JFO
	Total of 136 containers collected to date
<b>Mon, Sept 11</b>	FEMA requested EPA provide debris management expert at JFO
<b>Personnel: 244</b>	Reggie Cheatham, Carl Edlund, Dan Opalski and Jodi Beringer will tour EPA's command post, Houston Laboratory, the TAGA mobile lab. And the San Jacinto Waste Pits
<b>Expended Funds: \$6,241,621</b>	Hurricane Harvey Story Map is final and posted on response.epa.gov
	5 Oil Discharge Recovery Teams monitored RP removal operations in Rockport, Fulton, Key Allegro, Cove Harbor, and Conn Brown Marinas
	Hazard Evaluation Team responded to report of chlorine release in vicinity of Chocolate Bayou; no evidence of release found by team
	Drinking Water On-Site Assessments: 467; Waste Water On-Site Assessments: 297
	Houston/Port Arthur/Beaumont began recovering and staging orphan containers
	ASPECT flew remaining RMP sites in Houston area; ASPECT completed flight operations for Harvey response
	Total of 218 containers collected to date
<b>Tues, Sept 12</b>	EPA/TCEQ issued joint news release updating status of water systems affected by Hurricane Harvey
<b>MA: 4332DR-TX-EPA-01-02</b>	Amendment #2: Amend to change Project end Date to 09/30/2017 and change Project Manager to Jason Burroughs (\$275,000)



<b>Personnel: 251</b>	Informational fact sheets for governmental entities and citizens posted on response.epa.gov website
<b>Expended Funds: \$5,060,900</b>	Total of 297 containers collected at sites
	EPA completed review of the TWD Board's request to address damage by the hurricane
	EPA received report from PCI Nitrogen, in Pasadena, stormwater run-off from South Gyp Stack slopes inundated concrete retaining wall and caused section of to collapse
	ASPECT completed flight operations for Harvey Response; total of 134 RMP, 456 drinking water, and 105 waste water facilities surveyed
	2 Orphan Container Recovery Teams identified targets in Port Arthur, South Orange, Lumberton, Bridge City, and Grove
	Drinking Water On-Site Assessments: 518; Waste Water On-Site Assessments: 347
<b>Wed, Sept 13</b>	TCEQ submitted request to FEMA to amend ESF-10 Mission Assignment for additional \$7.5 million
<b>Personnel: 263</b>	All 3 branches are recovering and staging orphan containers
<b>Expended Funds: \$5,395,063</b>	EPA/TCEQ issued a joint news release updating the status of the water systems
	Vector Control: DOD aerial assets sprayed 199,190 acres in Orange, Jefferson, and portions of Chambers Counties
	EPA completed sampling of all 34 Texas Superfund sites potentially impacted
	EPA concluded probable source of benzene and VOC readings in Manchester community was roof failure and spill at Valero Houston Refinery
	Total of 448 containers collected at sites
	EPA issued waiver of certain requirements of CAA
	EPA receives report from PCI Nitrogen in Pasadena, TX; team tested pH of material at discharge point and determined no CERCLA reportable release
	ASPECT completed flight operations; total of 134 RMP, 456 drinking water; 105 WW facilities were surveyed
	Drinking Water On-Site Assessments: 567; Waste Water On-Site Assessments: 385
<b>Thur, Sept 14</b>	TAGA conducted air monitoring assessments of 3 facilities near Deer Park claiming force majeure under existing consent decrees due to damage
<b>Personnel: 262</b>	EPA concluded probable source of benzene and VOC readings in Manchester was the roof failure and spill from a light crude storage tank at Valero Houston Refinery
<b>Expended Funds: \$5,702,063</b>	Total of 517 containers collected at sites
	Issuance of Recovery Mission Assignment to EPA placed on hold; Region 6 Recovery Coordinator demobilized from JFO
	4 field observers deployed to Houston to assist TCEQ with ensuring debris is segregated and categorized for disposal
	Highland Acid Pits, United Creosote, Conroe Creosoting, Tex Tin, Sheridan Disposal and Brio Refining show post-hurricane conditions consistent with pre-storm conditions
	EPA issued news release announcing EPA approved request from Texas to continue to waive requirements for fuels in Texas through 10/1/2017
	DW/WW teams completed assessments of community systems and will demobilize; 625 Drinking Water and 441 Waste Water assessments performed

<b>Fri, Sept 15</b>	EPA received report of fire at Enterprise Products facility in Mont Belvieu; fire was Butane, associated with degasser unit; fire out approximately 11:00 pm
<b>Personnel: 258</b>	EPA completed 14 of 34 site summaries of NPL sites and released 14 post-hurricane site summaries based on preliminary data on the <a href="http://www.epa.gov/hurricane-harvey">www.epa.gov/hurricane-harvey</a>
<b>Expended Funds: \$6,594,379</b>	EPA's dive team collected samples at San Jacinto Waste Pits, to ensure temporary cap did not release contaminants. RP continues to repair armored layer of cap
	EPA provided No Action Assurance for import of 225 generators by Yamaha Motor Corporation, to be donated for use in impacted communities
	Texas estimates debris to total 20 million cubic yards; FEMA estimates debris to total 16.5 million cubic yards
	EPA issued NAA Extensions to TCEQ on Loading of Tank Fuel Trucks at Petroleum Distribution Terminals, Landing Roofs on Gas Storage Vessels, and Use of Vapor Recovery Systems
	Joint EPA and TCEQ field observation teams were completed at 81 sites in Houston area on September 14 & 15
	TAGA conducted monitoring in Baytown and communities, Channelview, and Pasadena; no readings above TCEQ Air Monitoring Comparison Values short-term levels detected
	Orphan Container Recovery Teams retrieved multiple containers from Sabine Pass and Vidor areas
	Total 591 containers collected at sites
	Multi-state waiver expired
<b>Sat, Sept 16</b>	EPA received report on 9/15/17 of fire at Enterprise Products facility, Mont Belvieu; TAGA monitored facility and informed fire was Butane associated with degasses unit
<b>Personnel: 240</b>	DW/WW assessment teams completed their emergency assessments of community water systems and demob. On 9/15/17; 625 DW and 441 WW assessments were performed
<b>Expended Funds: \$6,845,205</b>	TAGA conducted air monitoring assessments in areas near 6 industrial facilities (Baytown, Mont Belvieu, Channelview, and Pasadena) TAGA is not monitoring today (9/16/17)
	DOD completed 50% of mission-assigned spray operations
	TCEQ requested FEMA to increase EPA's ESF-10 Mission Assignment by \$8.3 million in stages
	EPA provided No Action Assurance (NAA) for the import of 225 power generators by the Yamaha Motor Corporation
	Orphaned containers transferred from Corpus Christi Branch to staging area at Houston Branch, for disposal
	EPA will not pursue enforcement actions against tanker trucks for certain provisions for CAA and parallel TX regulations related to tank tightness and registration for tanker trucks
	Total 657 containers collected at sites
<b>Sun, Sept 17</b>	EPA has released 23 post-hurricane Superfund site summaries based on preliminary data on <a href="http://www.epa.gov/hurricane-harvey">www.epa.gov/hurricane-harvey</a> website
<b>Personnel: 223</b>	Total 716 containers collected at sites
<b>Expended Funds: \$7,083,209</b>	
<b>Mon, Sept 18</b>	EPA observers visited 38 landfill and staging area sites with TCEQ
<b>Personnel: 219</b>	Reconnaissance/Orphan container recovery activates are complete in the Corpus Christi Branch; last container on staging pad will be transferred to the Houston Branch today
<b>Expended Funds: \$7,320,171</b>	Corpus Christi Branch has transitioned all assessment and recovery operations to the TCEQ Regional Office and are closing this operation

	ASPECT and PHILIS have been demobilized
	DOD completed 70.5% of mission-assigned spray operations; to date 2,064,000 acres treated
	EPA received preliminary data on 40 NPL sites, and has released 27 post-hurricane Superfund site summaries based on preliminary data on <a href="http://www.epa.gov/hurricane-harvey">www.epa.gov/hurricane-harvey</a> website
	Corpus Christi Branch transitioned all future assessment and recovery operations to TCEQ Regional Office
	Total 954 containers collected at sites
	TAGA Team 1 conducted monitoring of areas in Victoria; TAGA Team 2 conducted air monitoring of areas in Port Arthur
	Representatives from U.S. Representative Culberson's (7th District Texas) visited Houston Branch
<b>Tues, Sept 19</b>	Dana Tulis, USCG Director of Incident Management and Preparedness Policy visited Houston and Corpus Christi Branches
<b>MA: 4332DR-TX-EPA-03-04</b>	Amendment #4: Amend to obligate an additional \$2,100,000 change project end date to 09/21/2017 and change Project Manager to Jason Burroughs (\$12,192,000)
<b>Personnel: 232</b>	EPA responded to large tank fire at Valero Port Arthur Refinery in Port Arthur; EPA and TCEQ conducted air monitoring; shelter-in-place lifted late in day
<b>Expended Funds: \$5,963,899</b>	Corpus Christi and Port Arthur/Beaumont Branches transitioned all future assessment and recovery operations to TCEQ Regional Offices
	2 TAGA air monitoring teams monitored areas near 13 facilities in Corpus Christi and Beaumont; no readings above TCEQ Air Monitoring Comparison Values short-term levels detected
	Total 977 containers collected at sites
	The Port Arthur/Beaumont ER/Orphan Container Recovery Teams safely retrieved chemical tote from Beaumont Yacht Club
	The Houston ER/Orphan Container Recovery Team recovered 2,500-gallon tote of unknown liquid
<b>Wed, Sept 20</b>	Texas requested EPA oversight of asphalt emulsion spill from L.D. Construction Company in Jefferson County
<b>Personnel: 229</b>	EPA investigating unknown sheen at RV Trailer Resort in Port Arthur
<b>Expended funds: \$6,250,136</b>	EPA has released 35 post-hurricane Superfund site summaries based on preliminary data on <a href="http://www.epa.gov/hurricane-harvey">www.epa.gov/hurricane-harvey</a> website
	TAGA Team 1 conducted air monitoring areas in Three Rivers area; TAGA Team 2 conducted air monitoring in Beaumont / Port Arthur area
	Total 987 containers collected at sites
	Oil/Vessel Discharge Recovery Teams in Corpus Christi closed four targets and opened one in Rockport and Key Allegro
	Water Task Force in Houston Branch recovered 4 totes within vicinity of San Jacinto Reserve and Houston Ship Channel
<b>Thu, Sept 21</b>	House of Representatives Speaker, Paul Ryan, visited Houston Branch
<b>MA: 4332-DR-TX-EPA-04</b>	FEMA issued new EPA ESF-10 MA; MA includes state cost share of 10% for response activities and adds additional \$3.3 million to continue field operations at request of Texas
<b>Personnel: 192</b>	TCEQ has requested FEMA to increase EPA's ESF-10 Mission Assignment an additional \$3.3 million; this will bring total funding for assessment and response to \$15.49 million
<b>Expended funds: \$6,496,400</b>	On Sept 21, EPA concurred on extension of Federal vector control/surveillance requirements associated with Texas Plan and use of insecticides containing "Naled" according to label

	DoD completed all assigned aerial spray missions; remaining spray operations will be under TX DSHS responsibility
	All targets have been assessed and recovered or closed; total of 648 targets have been evaluated since the beginning of response; total 987 containers collected at sites
<b>Fri, Sept 22-24</b>	The state cost-share for response activities increased to 10%
<b>Expended funds: \$7,058,485</b>	EPA announced it will extend enforcement discretion for petroleum distribution facilities, gasoline storage facilities and bulk fuel terminals in Texas until September 29
	Several staff members from UC demobilized from the Corpus Christi ICP, along with field staff from Corpus Christi, Beaumont, and Houston Branches
	On September 22, EPA received PRFA for \$1,700,000 from USCG to provide technical assistance with data, GIS and IAP support for 3 months
	Houston Branch completed waste characterization of all containers at pad
	EPA Teams completed Port Arthur RV Resort Oil Spill on September 24, 2017; response operations consisted of excavating leaking pipeline and cutting and capping line
	EPA observers visited 9 landfill and staging sites with TCEQ, on September 22
<b>Mon, Sept 25</b>	EPA Teams from Beaumont Branch continued monitoring the LD Construction Co. Oil Spill in Lumberton
<b>Expended funds: \$7,110,838</b>	Transition documents for all three branches have been signed. This transfers all ESF-10 Harvey related activities that are still ongoing from EPA to TCEQ.
<b>Tues, Sept 26</b>	EPA Region 6 received a request from the Texas Water Development Board to waive the American Iron and Steele requirement of the Drinking Water and Clean Water State Revolving loan funds for eligible projects.
<b>Expended funds: \$</b>	The Two EPA Region 6 Logistics Response Vehicles demobilized from Beaumont, TX
<b>Weds, Sept 27</b>	The two EPA Region 6 Logistic Response Vehicles arrived at the Addison, TX Coop
<b>Expended funds: \$</b>	
<b>Thurs, Sept 28</b>	The EPA Region 6 mobile command post that was stationed at the ICP in Corpus Christi, TX demobed on September 28, 2017
<b>Expended funds: \$</b>	
<b>Friday, Sept 29</b>	

Expended funds: \$	